



**Product:** [3092A](#)

ControlBus™, Coax RG-6, #18 Sol BCCS, FPE Ins, QUAD AL Shld, PVC Jkt, CMR

[Request Sample](#)

## Product Description

Coax RG-6 18 AWG (Solid) Bare Copper Covered Steel, Foam PE Insulation, Overall Duobond® II+Aluminum Braid(60%)+Duofoil®+Aluminum Braid(40%) Shield, PVC Outer Jacket, CMR

## Technical Specifications

### Product Overview

Suitable Applications:	harsh environment, factory automation, ControlNet™, Modbus II, Industrial Coax, Belden ControlNet cables provide maximum signal integrity and run length exceeding the high-speed, time-critical requirements necessary for ControlNet factory floor applications
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### Construction Details

RG Type:	6
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#### Conductor

AWG	Stranding	Nom. Diameter	Material
18	Solid	0.040 in	BCCS - Bare Copper Covered Steel

#### Insulation

Material	Nom. Diameter
PE - Polyethylene (Foam)	0.180

#### Outer Shield Material

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duobond® II	100%
2	Braid	Aluminum		60%
3	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
4	Braid	Aluminum		40%

#### Outer Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.298 in

### Electrical Characteristics

#### Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss [dB]
5 - 50 MHz	23 dB

#### Attenuation

Frequency	Nom. Attenuation [dB/100ft]	Max. Attenuation [dB/100ft]
1 MHz	0.35 dB/100ft	0.40 dB/100ft
2 MHz	0.38 dB/100ft	0.42 dB/100ft
5 MHz	0.45 dB/100ft	0.50 dB/100ft
10 MHz	0.59 dB/100ft	0.65 dB/100ft
20 MHz	0.86 dB/100ft	0.95 dB/100ft
50 MHz	1.37 dB/100ft	1.52 dB/100ft
100 MHz	1.97 dB/100ft	

200 MHz	2.82 dB/100ft	
300 MHz	3.48 dB/100ft	
400 MHz	4.04 dB/100ft	

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Impedance	Nom. Velocity
28 Ohm/1000ft	2.6 Ohm/1000ft	16.2 pF/ft	75 Ohm	83%

#### Voltage

UL Voltage Rating
300 V (CMR, CMG)

## Mechanical Characteristics

#### Temperature

UL Rating	Operating
75°C	-30°C to +75°C

#### Bend Radius

Installation Min.
3 in

Bulk Cable Weight:	35 lbs/1000ft
Max. Pull Tension:	118 lbs

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	UL1685 FT4 Loading, Limited Smoke
NEC / UL Compliance:	CMR, CL2R, CMG
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	3093A

## History

Update and Revision:	Revision Number: 0.325 Revision Date: 07-28-2020
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